·	Application No.	Applicant(s)	
Notice of Allowability	10/665,465	HATA, DAISUKE	
	Examiner	Art Unit	
	Usman Khan	2622	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to <u>04/09/2007</u> .			
2. ☑ The allowed claim(s) is/are <u>1-12</u> .			. •
 Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requ	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NO tion is deficient	OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	.948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawing he header according to 37 CFR 1.121(ngs in the front (not the †	back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL r	nust be submitted. N	ote the
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal F	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	te ment/Comment	
Paper No./Mail Date 4.	8. ☑ Examiner's Statement of Reasons for Allowance9. ☐ Other		
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DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on 03/23/2007 disclaiming the terminal portion of

any patent granted on this application which would extend beyond the expiration date of

US 6,700,614 B1 has been reviewed and is accepted. The terminal disclaimer has

been recorded. The rejection of double patenting cited in the office action dated

12/14/2006 has been withdrawn due to the filing of the terminal disclaimer.

Response to Amendment

Regarding objection to specification for failing to provide a descriptive title.

Applicant has amended the title of the invention to overcome the objection to the

specification.

Regarding rejection under 35 U.S.C. 112, first paragraph as failing to comply with

the written description requirement has been withdrawn since the applicant has support

for that the light from the flash is able to vary in the specification and in the.

The rejection of double patenting cited in the office action dated has been

withdrawn due to the filing of the terminal disclaimer.

Allowable Subject Matter

Claims 1-12 are allowed.

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The following is an examiner's statement of reasons for allowance:

Regarding independent **claim 1**, the prior art of record fails to teach or fairly suggest "An autofocus apparatus comprising: an image pickup means for converting the light of an object received through a focus lens system to electric signals and outputting the signals as image data; an A/D converting means for A/D-converting the image data to obtain digital image data; an AF evaluating means for outputting an AF evaluated value obtained by integrating high-frequency components of brightness data in the digital image data; a sampling means for sampling the AF evaluated value obtained by said AF evaluating means while moving the position of said focus lens system; a flash means for illuminating light; and a focus driving means for determining a focus according to a result of the sampling of an AF evaluated value by said sampling means and driving said focus lens system to the focus position; wherein light is flashed in synchronism with the sampling timing of an AF evaluated value."

Regarding independent claim 7, the prior art of record fails to teach or fairly suggest "An autofocus apparatus comprising: an image pickup device which converts the light of an object received through a focus lens system to electric signals and outputting the signals as image data; an A/D converter which A/D-converts the image data to obtain digital image data; an AF evaluating unit which outputs an AF evaluated value obtained by integrating high-frequency components of brightness data in the digital image data; a sampling unit which samples the AF evaluated value obtained by said AF evaluating unit while moving the position of said focus lens system; a flash

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which illuminates light; and <u>a focus driver which determines a focus according to a result of the sampling of an AF evaluated value by said sampling unit and driving said focus lens system to the focus position; wherein light is flashed in synchronism with the sampling timing of an AF evaluated value."</u>

Regarding **claims 2 - 6**, these claims are allowed as being dependent from allowed independent claim 1.

Regarding **claims 8 - 12**, these claims are allowed as being dependent from allowed independent claim 7.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usman Khan whose telephone number is (571) 270-1131. The examiner can normally be reached on Mon-Thru 6:45-4:15; Fri 6:45-3:15 or Alt. Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Usman Khan 4/10/2007

Patent Examiner

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DAVID OMETŽ